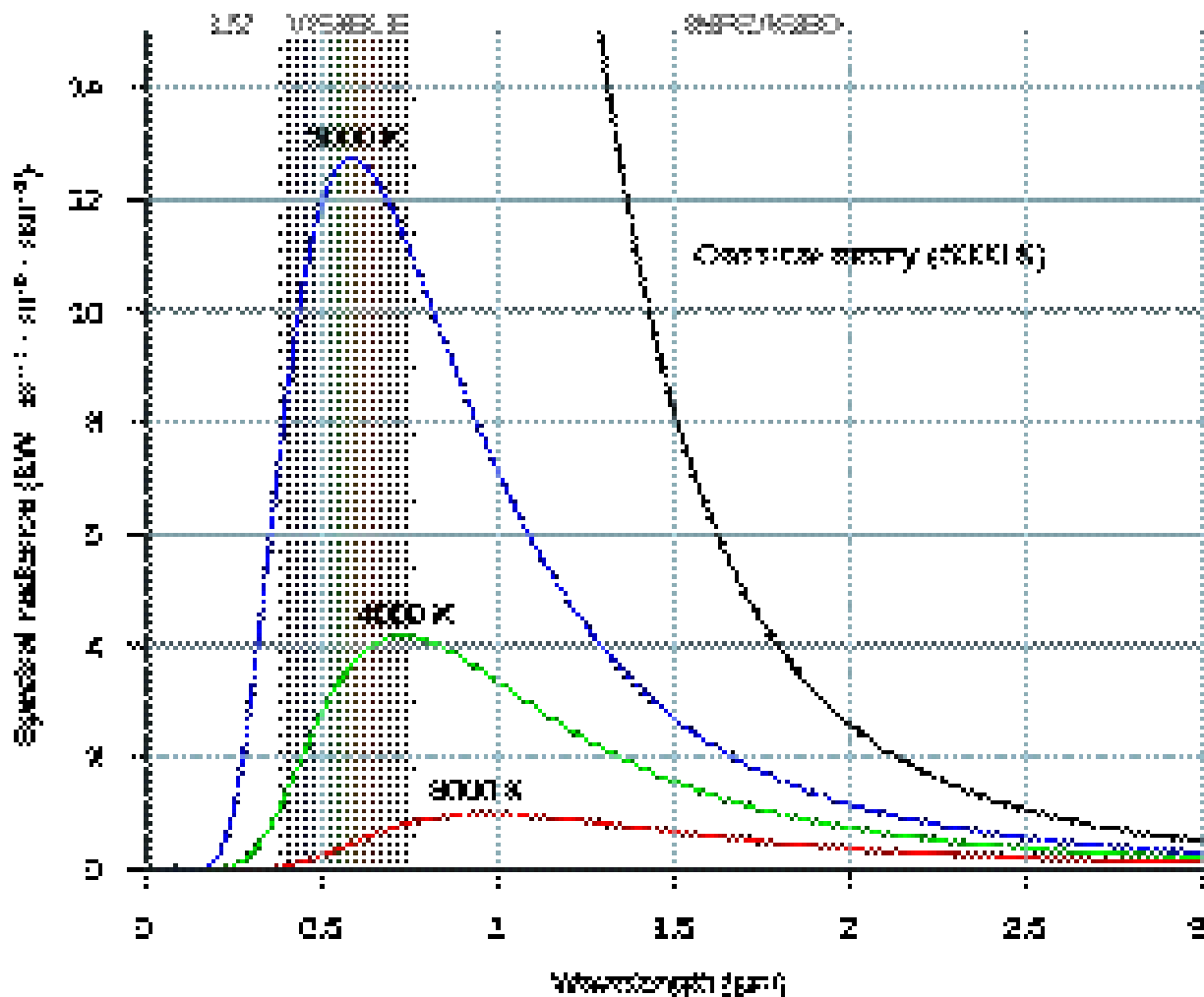


More Quantum and Particle physics

Blackbody radiation -Planck

Blackbody is a material that radiates or absorbs electromagnetic energy at all frequencies. A hot iron rod glows differently at different temperatures:



Classical theory didn't match the observations. Planck said, it looks like the energy distribution of particles, so he

hypothesized that the energy was emitted as quanta, bundles $E=hf$.

- He didn't believe it.

Homework - follow these links and play.

Write down what you observe.

Blackbody:

<https://phet.colorado.edu/en/simulation/legacy/blackbody-spectrum>

Photoelectric effect:

<https://phet.colorado.edu/en/simulation/photoelectric>

Heisenberg's uncertainty principle